	Application No.	Applicant(s)
Notice of Allowability	10/716,765	SANDHU ET AL.
	Examiner	Art Unit
	Thanh T. Nguyen	2813
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 4/6/05.		
2. The allowed claim(s) is/are <u>1-3 and 7-9</u> .		
3. The drawings filed on 19 November 2003 are accepted by the Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)  1. Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summar	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/19/03	Paper No./Mail D 08), 7. ⊠ Examiner's Amen	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Staten	nent of Reasons for Allowance
of Biological Material	9.	
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## **REASONS FOR ALLOWANCE**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

## The following is an examiner's Amendment/Comments:

Applicant's election of specie I, claims 1-3, 7-9 in the reply filed on 2/14/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Examiner pointed out the reasons why the withdrawn claims are not considered in the previous office action that species I, oxidizing the tantalum oxide at the temperature above crystallization of tantalum oxide, the specie II, oxidizing the tantalum oxide at the temperature below crystallization of tantalum oxide. Since applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse.

This application is in condition for allowance except for the presence of claims 4-6, 10-33 drawn to non-elected without traverse for the above reasons. Accordingly, claims 4-6, 10-33 have been cancelled.

Please cancel claims 4-6, 10-33.

Please replace the title of the invention with --a method of forming a coupling dielectric  $Ta_2O_5$  in a memory device--.

## The following is an examiner's statement of reasons for allowance:

Claims 1-3, 7-9 are allowed because none of the prior art alone or in combination teaches or suggests the particular subset of the process steps in forming a coupling dielectric in a memory cell with by oxidizing the Ta<sub>2</sub>O<sub>5</sub> with rapid thermal process at a temperature above the crystallization temperature for Ta<sub>2</sub>O<sub>5</sub>, forming an cell nitride on the oxidized Ta<sub>2</sub>O<sub>5</sub>, and forming a wetgate oxide on the cell nitride.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Nguyen whose telephone number is (571) 272-1695, or by Email via address Thanh.Nguyen@uspto.gov. The examiner can normally be reached on Monday-Thursday from 6:00AM to 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr., can be reached on (571) 272-1702. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956 (See MPEP 203.08).

Thanh Nguyen

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Patent Examiner

Patent Examining Group 2800

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